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# PE/Cyanine7 Anti-Mouse CD122 Antibody[TM-Beta 1]

Catalog Number: AN00418UH

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## **Description**

Reactivity Mouse Host Rat

IsotypeRat IgG2b, κClone No.TM-Beta 1

Isotype Control PE/Cyanine7 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842H]

Conjugation PE/Cyanine 7

Conjugation Information PE/Cyanine7 is designed to be excited by the Blue (488 nm), Green (532 nm) and

yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm

(e.g., a 780/60 nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

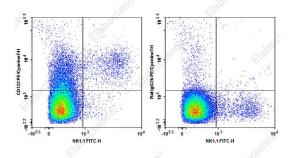
### Applications Recommended usage

**FCM** Each lot of this antibody is quality control tested by flow cytometric analysis. For flow

cytometric staining, the suggested use of this reagent is  $\leq$  1.0  $\mu$ g per 10<sup>6</sup> cells in 100  $\mu$ L volume or 100  $\mu$ L of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

#### Data



Staining of C57BL/6 murine splenocytes cells with FITC Anti-Mouse NK1.1 Antibody and PE/Cyanine7 Anti-Mouse CD122 Antibody[TM-Beta 1] (left) or PE/Cyanine7 Rat IgG2b,  $\kappa$  Isotype Control (right). Total viable cells were used for analysis.

# **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

# **Antigen Information**

Alternate Names IL-2 Receptor β chain;IL-2Rβ

 Uniprot ID
 P16297

 Gene ID
 16185

# For Research Use Only

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### **Elabscience Bionovation Inc.**

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# **Background**

Elabscience®

CD122 is a 70-75 kD IL-2 receptor β chain also known as IL-2Rβ, which is also shared by the IL-15 receptor. It is constitutively expressed by NK cells and at lower levels by T cells, B cells, monocytes, and macrophages. The IL-2Rß chain can combine with either the common y subunit (yc, CD132) alone or with the yc subunit and the IL-2Ra subunit (CD25) to generate intermediate or high affinity IL-2 receptor complexes, respectively. CD122 expression levels can be upregulated by activation. The TM-β1 antibody does inhibit IL-2 binding to the IL-2 receptor. CD122 is expressed on murine, but not human, CD8+ Tregs involved in the maintenance of T cell homeostasis.

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